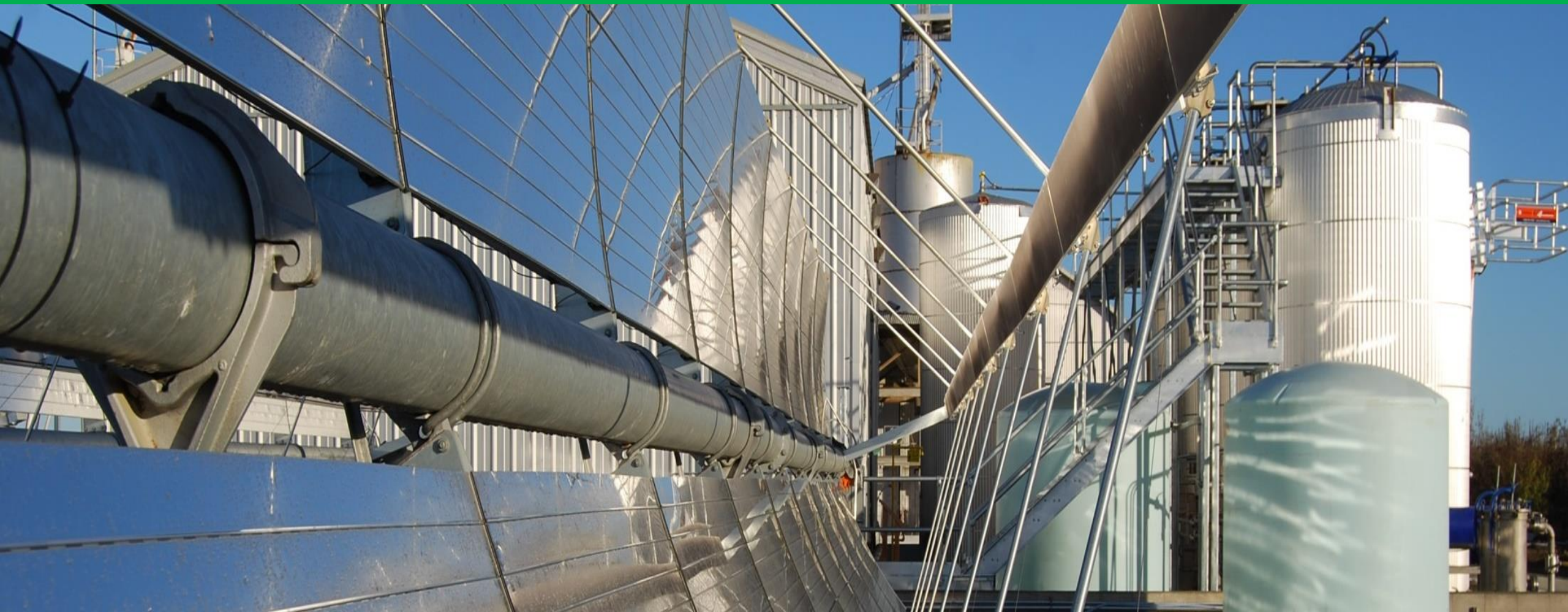
Zero Net
— Energy Farms —

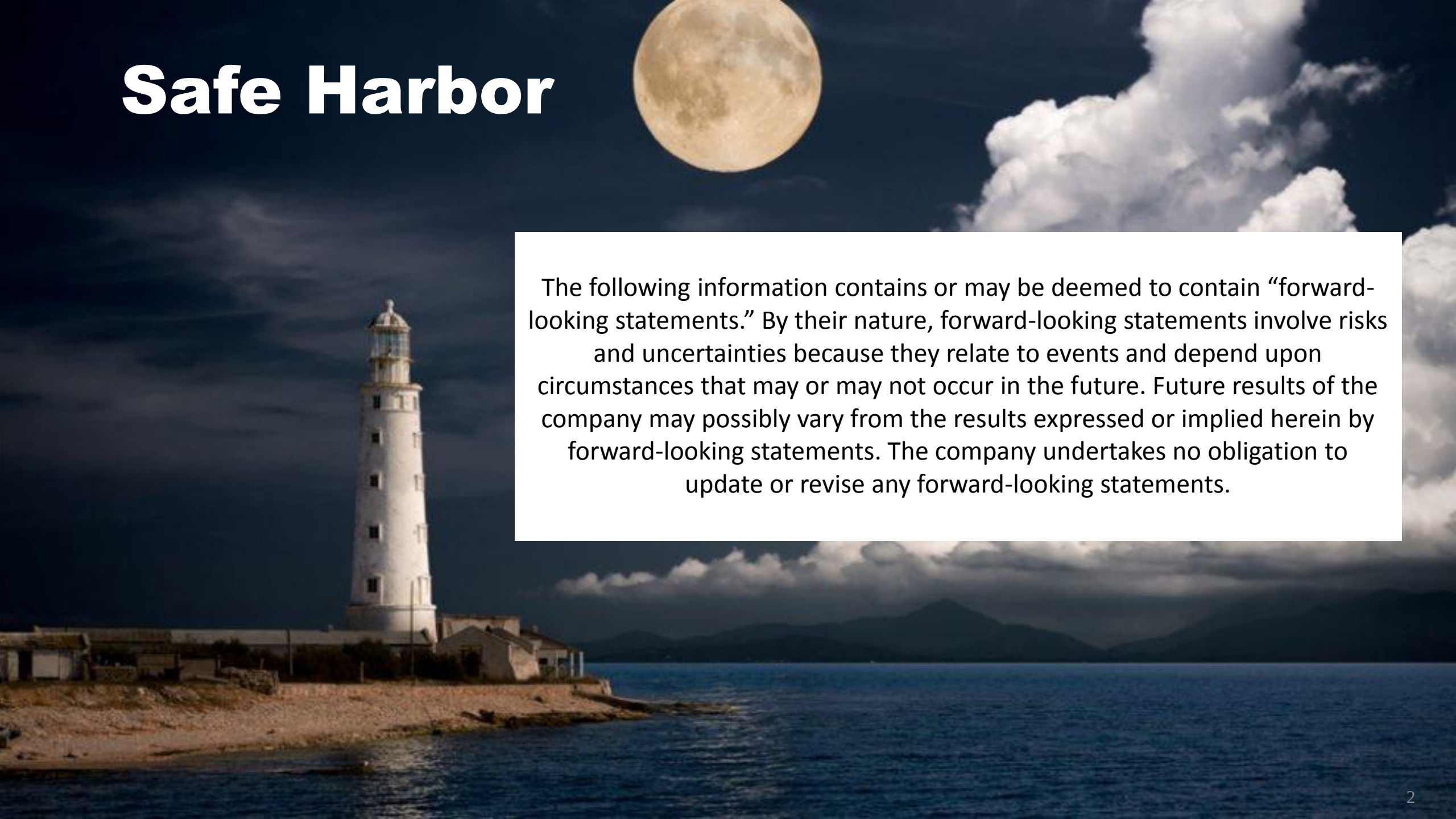
CDFA, World Ag Expo

February 16, 2017, Tulare CA

Biodico Westside, Five Points, CA



Safe Harbor



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ZNEF TEASER 1 FINE CUT

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from Jeff Aiello PRO 3 weeks ago

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2/5/2017

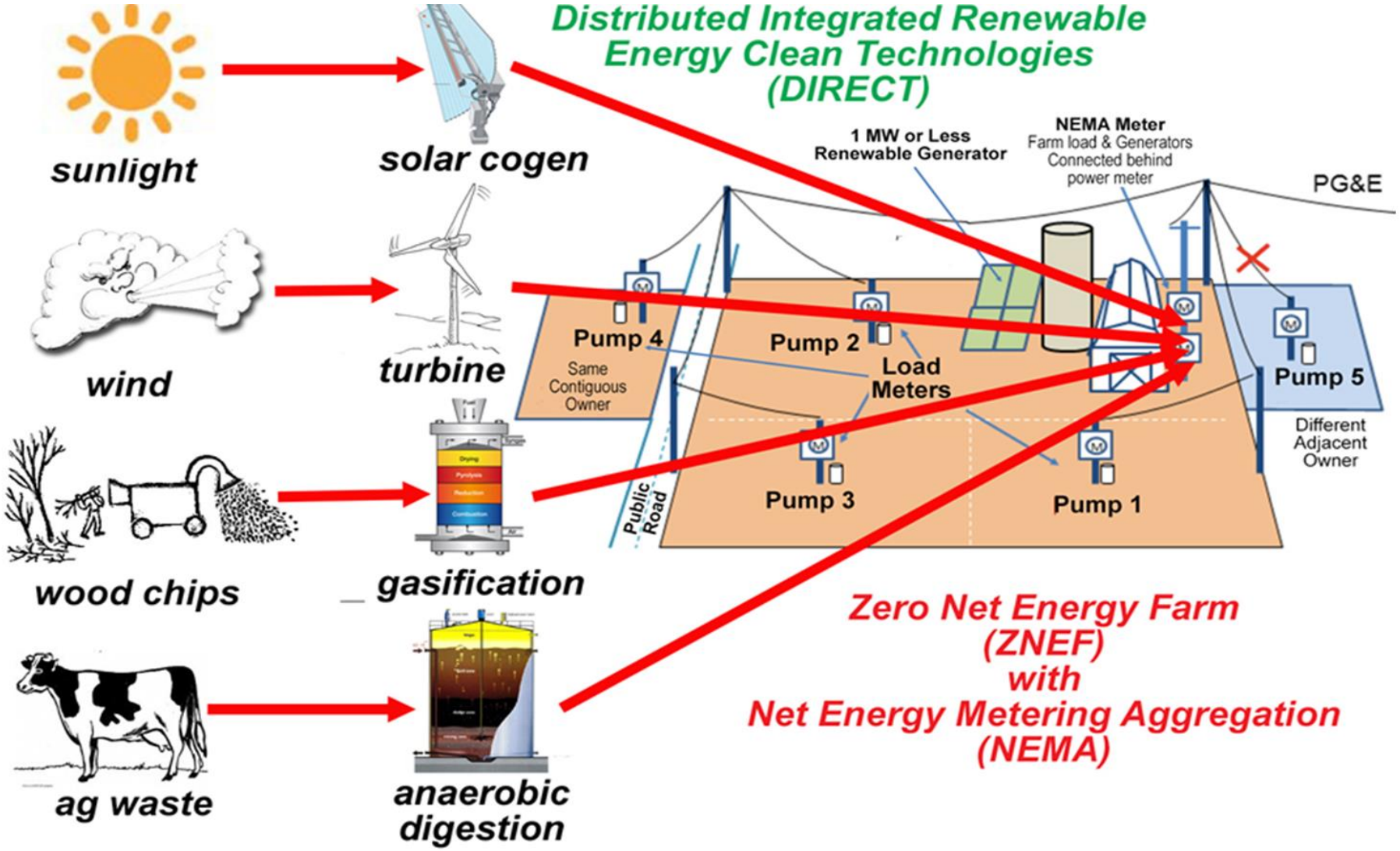
Thank you to our many collaborators

	Collaborators (in alphabetical order)	Role
	18Thirty Entertainment	Team Member
	American Air Liquide	Team Member
	Biodico	Lead
	City of Huron	Team Member
	City of San Joaquin	Team Member
	County of Fresno	Team Member
	Fresno Council of Governments	Team Member
	Fresno County Fire	Team Member
	PondelWilkinson, Inc.	Team Member
	Red Rock Ranch, Inc.	Team Member
	San Joaquin Valley Air Pollution Control District	Team Member
	San Joaquin Valley Clean Energy Cluster (CSU Fresno)	Team Member
	San Joaquin Valley Clean Energy Organization	Team Member
	US Navy, NAVFAC EXWC	Team Member
	West Hills Community College District	Team Member

The Basic Concept

Zero Net
— Energy Farms —

Enabling Farms to Generate All of Their Own Fuel & Power from On-site Renewable Resources, while Reducing Greenhouse Gases and Providing Meaningful Jobs & Economic Development



Objectives

- Resource Assessment
- Technology Trade Study
- Permitting
- Financing
- Create user friendly interface for guiding agricultural interests through the development process

Zero Net
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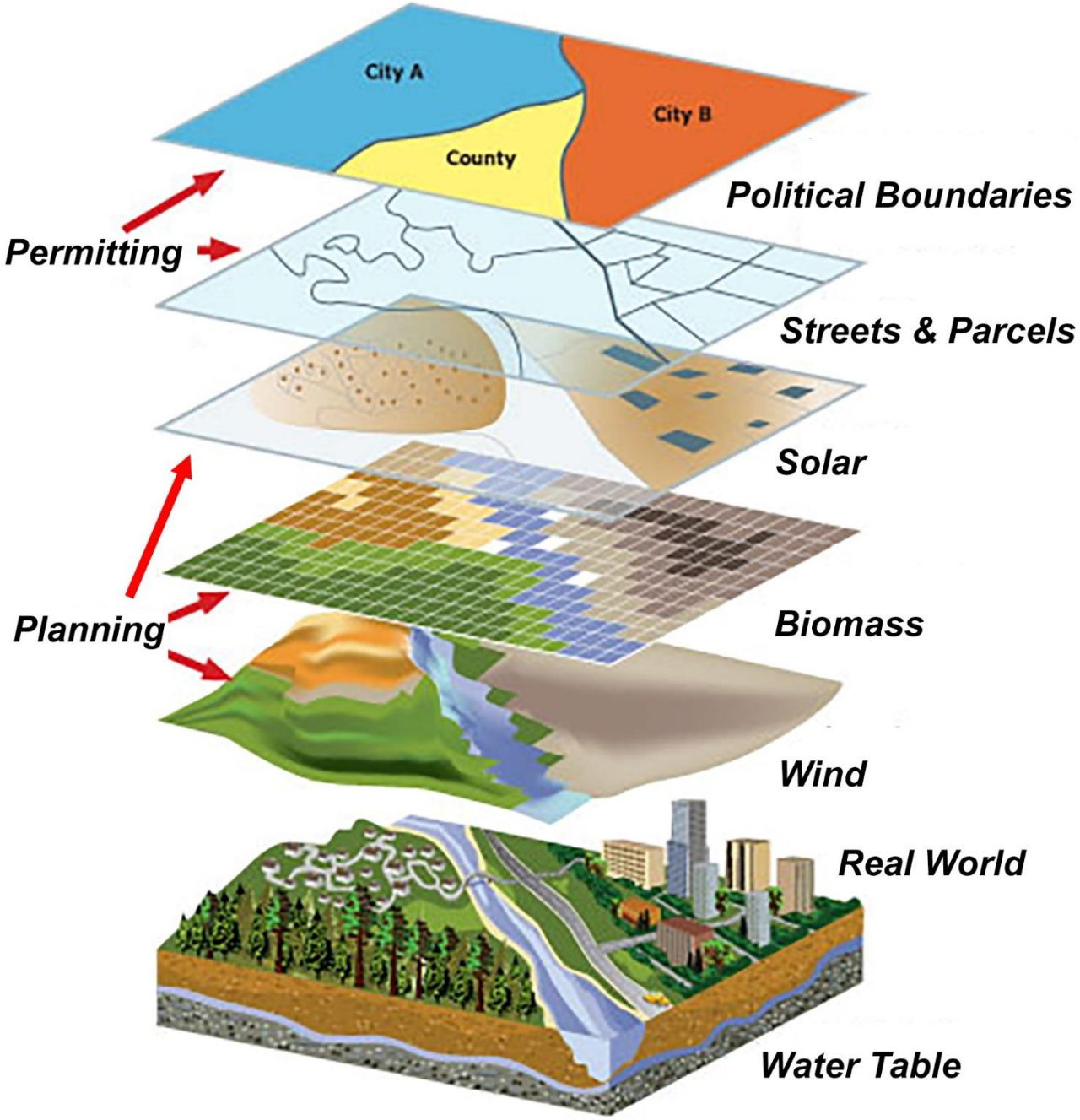
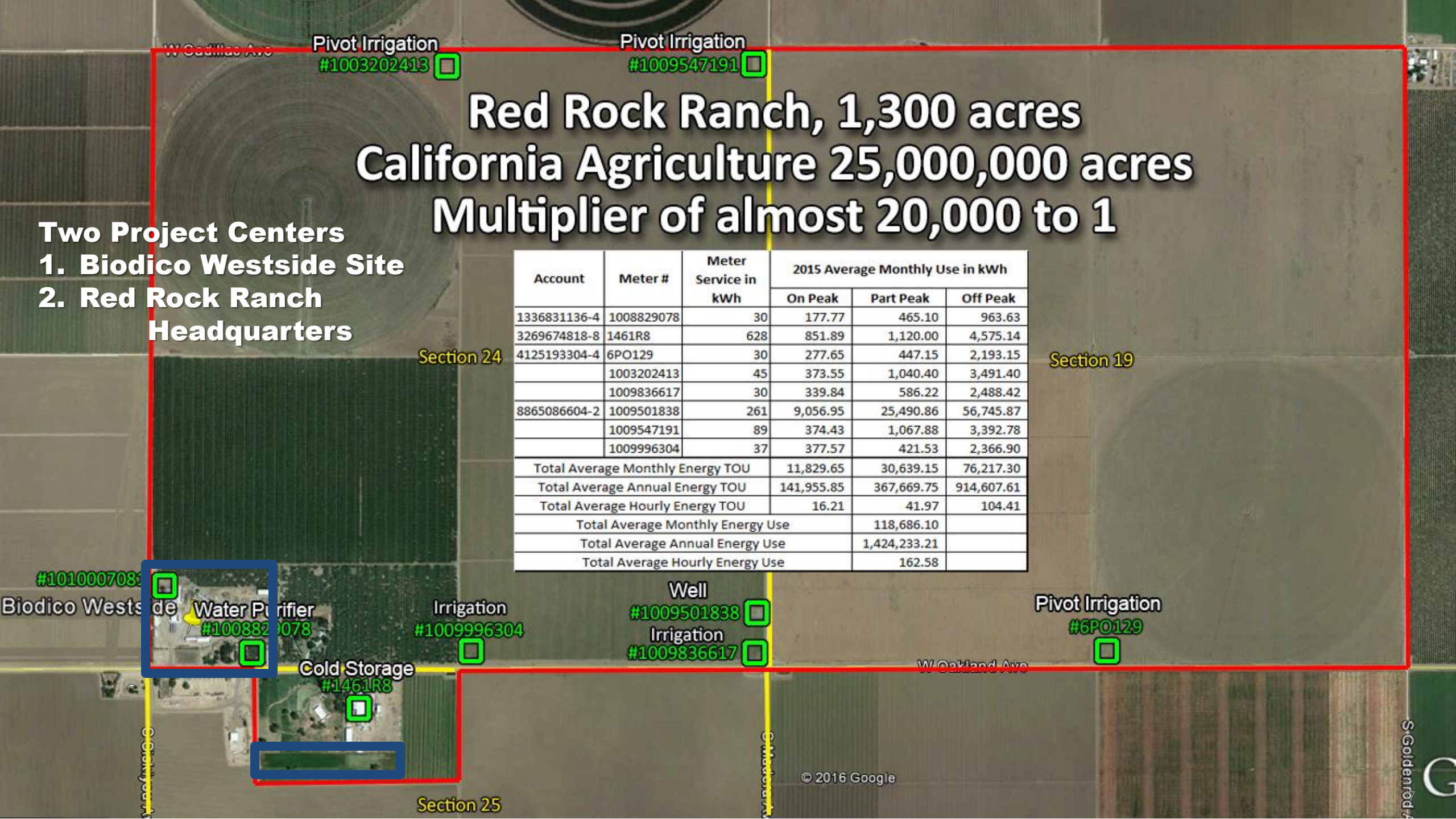


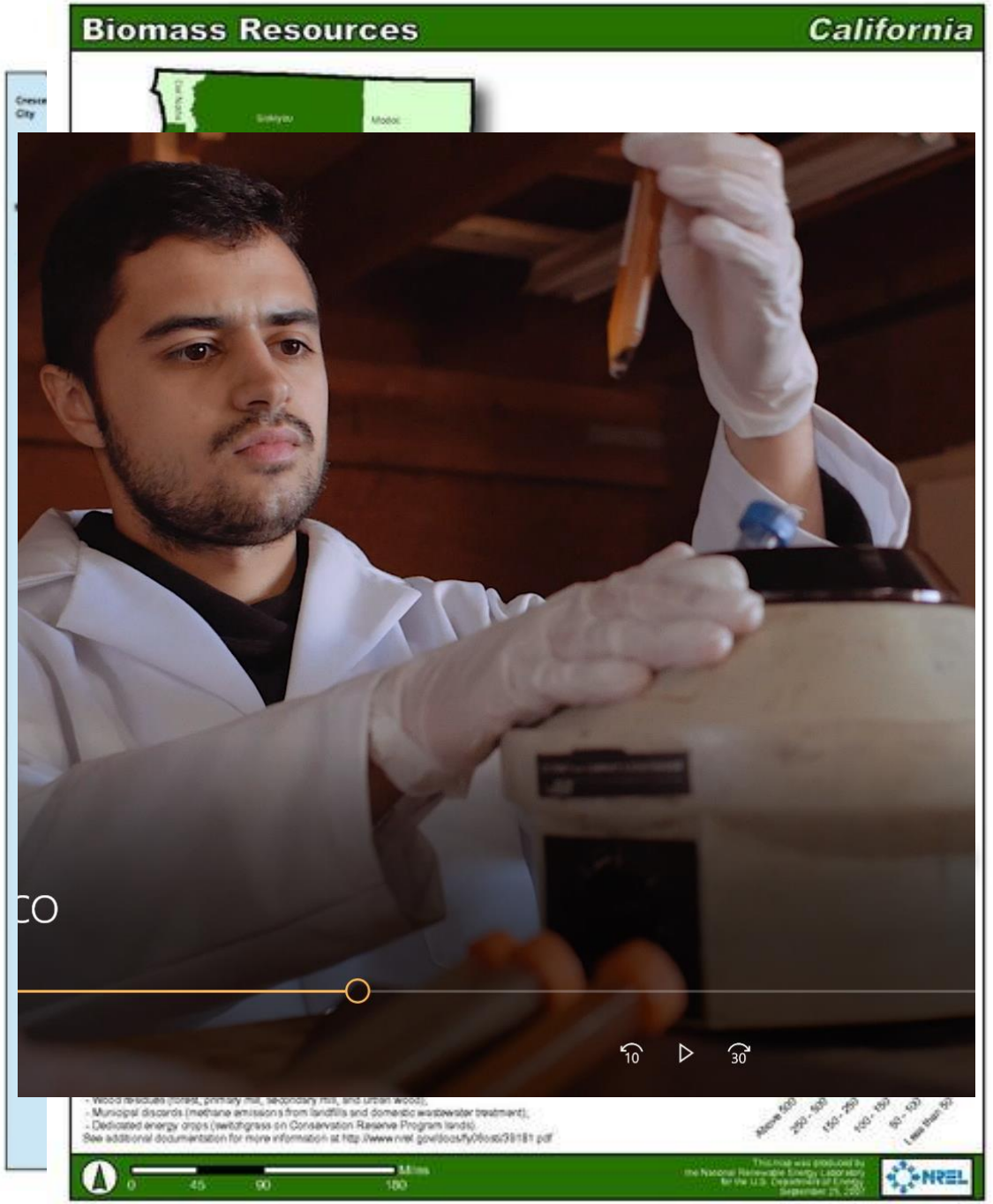


Account	Meter #	Meter Service in kWh	2015 Average Monthly Use in kWh		
			On Peak	Part Peak	Off Peak
1336831136-4	1008829078	30	177.77	465.10	963.63
3269674818-8	1461R8	628	851.89	1,120.00	4,575.14
4125193304-4	6PO129	30	277.65	447.15	2,193.15
	1003202413	45	373.55	1,040.40	3,491.40
	1009836617	30	339.84	586.22	2,488.42
8865086604-2	1009501838	261	9,056.95	25,490.86	56,745.87
	1009547191	89	374.43	1,067.88	3,392.78
	1009996304	37	377.57	421.53	2,366.90
Total Average Monthly Energy TOU			11,829.65	30,639.15	76,217.30
Total Average Annual Energy TOU			141,955.85	367,669.75	914,607.61
Total Average Hourly Energy TOU			16.21	41.97	104.41
Total Average Monthly Energy Use				118,686.10	
Total Average Annual Energy Use				1,424,233.21	
Total Average Hourly Energy Use				162.58	

Resource Assessment

- Solar is very good but needs to be ag appropriate
- Wind is adequate, but concern for birds
- Biomass is plentiful in the form of wood chips from orchards and vineyards – open burning
- Dairy Digesters have a huge potential, but lots of problems

There are sufficient resources to move ahead with solar, wind, gasification and anaerobic digestion

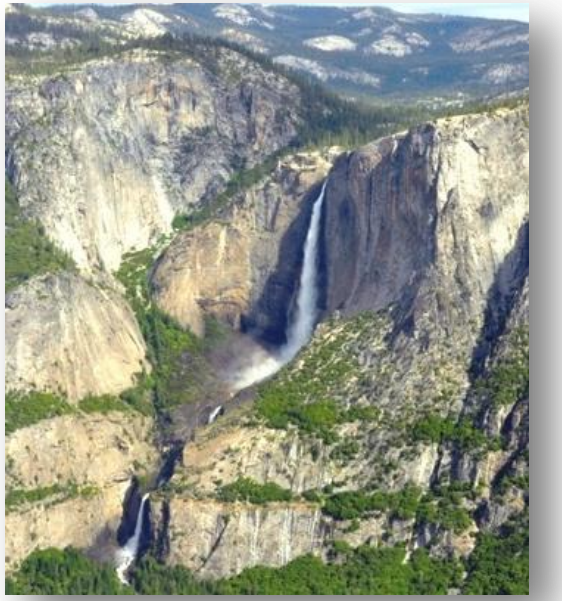


Ag Appropriate Technology

- Solar Intercropping
- Solar Wind Structure
- Wood Chip Boiler
- Anaerobic Digestion

1) Diary Digesters can be greatly improved – “Doing the same thing, and expecting different results.”
2) Hydraulic Retention Time – 20-30 days vs less than 24 hours
3) Organic Loading Rate – 20% capacity vs 100% capacity
4) Automation & Remote Sensing
5) Need for demonstration center that is dairy neutral
6) Draft Grant Solicitation only allows for on-dairy projects – needs to be changed to allow dairy neutral locations

The technologies chosen are the best available for the resources identified



Biodiesel Production

Algaculture

Anaerobic Digestion

Sustainable Water

Renewable Energy

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Intercropping

Gasification

Community Development